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## FAX TRANSMISSION

**DATE:** August 3, 2007

**PTO IDENTIFIER:** Application Number 09/710,218-Conf. #4731  
Patent Number 7,117,502

**Inventor:** Timothy L. Harris

**MESSAGE TO:** US Patent and Trademark Office

**FAX NUMBER:** (571) 273-8300

**FROM:** OSHA · LIANG LLP

Robert P. Lord

**PHONE:** (713) 228-8600

**Attorney Dkt. #:** 33226/963001; P4896

**PAGES (Including Cover Sheet):** 22

**CONTENTS:**

Transmittal (1 page)  
Transmittal Letter (2 pages)  
Revocation and Substitute POA under 37 CFR §1.36 with attached Appendix A (17 pages)  
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<b>TRANSMITTAL FORM</b>  <small>(to be used for all correspondence after initial filing)</small>	Application Number	Patent#: 7,117,502	
	Filing Date	Issued: October 3, 2006	
	First Named Inventor	Timothy L. Harris	
	Art Unit	2194	
	Examiner Name	Not Yet Assigned	
Total Number of Pages in This Submission	21	Attorney Docket Number	33228/963001; P4896

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Transmittal Letter (2 pages) Certificate of Transmission (1 page)
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Firm Name	OSHA LIANG LLP	
Signature		
Printed name	Robert P. Lord	
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Docket No.: 33226/963001; P4896  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:  
Timothy L. Harris

Patent No.: 7,117,502

Issued: October 3, 2006

For: LINKED-LIST IMPLEMENTATION OF DATA  
STRUCTURE WITH CONCURRENT NON-  
BLOCKING INSERT AND REMOVE  
OPERATIONS

TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed are the following items for filing in connection with the above-referenced Patent:

1. Transmittal (1 page);
2. Revocation and Substitute POA under 37 CFR §1.36 with attached Appendix A (17 pages); and
3. Certificate of Transmission (1 page).

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 50-0591, under Order No.

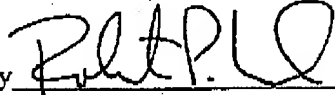
Application No.: 09/710,218

Docket No.: 33226/963001; P4896

33226/963001; P4896.

Dated: July 24, 2007

Respectfully submitted,

By 

Robert P. Lord

Registration No.: 46,479

OSHA · LIANG LLP

1221 McKinney St., Suite 2800

Houston, Texas 77010

(713) 228-8600

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Name of Applicant and Assignee: SUN MICROSYSTEMS, INC.  
Address of Applicant and Assignee: 4150 Network Circle  
Santa Clara, CA 95054

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**REVOCATION AND SUBSTITUTION  
OF POWER OF ATTORNEY UNDER 37 C.F.R. §1.36**

Dear Sir:

Pursuant to 37 C.F.R. §1.36, Sun Microsystems, Inc., the applicant and assignee of the patent applications listed on the attached APPENDIX A, revokes all previous powers of attorney in the patent applications listed on the attached APPENDIX A, hereby appoints the following attorneys and/or agents assigned to the Customer Number listed below to prosecute the patent applications listed on the attached APPENDIX A, and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Customer Number 32615

**32615**  
PATENT TRADEMARK OFFICE

Please direct all correspondence and telephone calls concerning the patent applications listed on the attached APPENDIX A to:

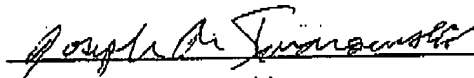
Robert P. Lord  
OSHA • LIANG LLP  
1221 McKinney Street, Suite 2800  
Houston, Texas 77010  
Telephone No.: (713) 228-8600  
Facsimile No.: (713) 228-8778

Further, please change the attorney/docket number corresponding to the patent applications listed in APPENDIX A from the attorney/docket number on file to that indicated on APPENDIX A.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified applicant.

The undersigned hereby declares that all statements made herein of the undersigned's own knowledge are true, that all statements made on information and belief are believed to be true, and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the sixteen patent applications listed on the attached APPENDIX A or any patents issuing thereon.

Signature:



Dated:

Dec. 20, 2006

Name:

Joseph A. Twarowski

Title:

Assistant General Counsel  
Sun Microsystems, Inc.

197121\_1

**APPENDIX A**

1. **Patent Application/Serial No.:** 10/799,049  
**Title:** GARBAGE-FIRST GARBAGE COLLECTION  
**Filed:** 3/12/2004  
**Applicant:** Sun Microsystems, Inc.  
**Reel/Frame No.:** 015079/0946  
**Reference No:** 33226/940001; SUN040074
  
2. **Patent Application/Serial No.:** 10/394,813  
**Title:** ELISION OF WRITE BARRIERS FOR STORES WHOES VALUES ARE IN CLOSE PROXIMITY  
**Filed:** 3/21/2003  
**Applicant:** Sun Microsystems, Inc.  
**Reel/Frame No.:** 013905/0661  
**Reference No:** 33227/023001; P7479
  
3. **Patent Application/Serial No.:** 09/551,113  
**Title:** CONCURRENT SHARED OBJECT IMPLEMENTED USING A LINKED-LIST WITH AMORTIZED NODE ALLOCATION  
**Filed:** 4/18/2000  
**Applicant:** Sun Microsystems, Inc.  
**Reference No:** 33226/960000; P4665

4. **Patent Application/Serial No.:** 10/664,799  
**Title:** BLINDED ENCRYPTION AND DECRYPTION  
**Filed:** 9/18/2003  
**Applicant:** Sun Microsystems, Inc.  
**Reference No:** 33227/009001
5. **Patent Application/Serial No.:** 10/313,878  
**Patent No.:** 7,143,124  
**Title:** DECETION OF DEAD REGIONS DURING INCREMENTAL COLLECTION  
**Filed:** 12/6/2002  
**Applicant:** Sun Microsystems, Inc.  
**Reel/Frame No.:** 013559/0709  
**Reference No:** 33226/977001; P8275
6. **Patent Application/Serial No.:** 09/547,288  
**Title:** MAINTAINING A DOUBLE-ENDED QUEUE IN A CONTIGUOUS ARRAY WITH CONCURRENT NON-BLOCKING INSERT AND REMOVE OPERATIONS USING A DOUBLE COMPARE-AND-SWP PRIMITIVE  
**Filed:** 4/11/2000  
**Applicant:** Sun Microsystems, Inc.  
**Reel/Frame No.:** 010712/0617  
**Reference No:** 33226/959002; P4663



**7. Patent Application/Serial No.: 10/861,704****Title:** THREAD SUSPENSION SYSTEM AND METHOD**Filed:** 6/4/2004**Applicant:** Sun Microsystems, Inc.**Reference No:** 33226/955002; P2927 C**8. Patent Application/Serial No.: 09/454,427****Title:** DYNAMIC EMBEDDING OF LITERAL OBJECT DATA IN SUPPLIED INSTANCE OF INFORMATION OBJECT**Filed:** 12/3/1999**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 010448/0577**Reference No:** 33226/956001; P3916**9. Patent Application/Serial No.: 11/099,720****Title:** SEQUENTIALLY PERFORMED COMPARE-AND-SWAP**Filed:** 4/6/2005**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 016661/0899**Reference No:** 33226/962002; P4667-US-DIV-1

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10. Patent Application/Serial No.: 09/710,218

Patent No.: 7,117,502

Title: LINKED-LIST IMPLEMENTATION OF  
DATA STRUCTURE WITH  
CONCURRENT NON-BLOCKING  
INSERT AND REMOVE OPERATIONS

Filed: 11/10/2000

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 011305/0889

Reference No: 33226/963001; P4896

11. Patent Application/Serial No.: 10/996,508

Title: WORK-STEALING QUEUES FOR  
PARALLEL GARBAGE COLLECTION

Filed: 11/23/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 011270/0285

Reference No: 33226/964002; P4946C1

12. Patent Application/Serial No.: 60/204,184

Title: PARALLEL GARBAGE COLLECTION  
FOR SHARED MEMORY  
MULTIPROCESSORS

Filed: 5/15/2000

Applicant: Sun Microsystems, Inc.

Reference No: 33226/964000; P4948

13. Patent Application/Serial No.: 09/697,729  
Patent No.: 6,823,351  
Title: WORK-STEALING QUEUES FOR  
PARALLEL GARBAGE COLLECTION  
Filed: 10/26/2000  
Applicant: Sun Microsystems, Inc.  
Reel/Frame No.: 011270/0285  
Reference No: 33226/964001; P4946
14. Patent Application/Serial No.: 09/893,256  
Patent No.: 7,103,887  
Title: LOAD-BALANCING QUEUES  
EMPLOYING LIFO/FIFO WORK  
STEALING  
Filed: 6/27/2001  
Applicant: Sun Microsystems, Inc.  
Reel/Frame No.: 011943/0085  
Reference No: 33226/966001; P5388
15. Patent Application/Serial No.: 10/166,874  
Title: PREFETCHING TECHNIQUES FOR  
NETWORK INTERFACES  
Filed: 6/11/2002  
Applicant: Sun Microsystems, Inc.  
Reel/Frame No.: 013001/0641  
Reference No: 33226/967001; P7322

**16. Patent Application/Serial No.: 10/679,183****Title:** DEFERRING AND COMBINING  
WRITE BARRIERS FOR A GARBAGE-  
COLLECTED HEAP**Filed:** 10/3/2003**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 014590/0742**Reference No:** 33226/971001; P7863**17. Patent Application/Serial No.: 10/653,828****Title:** SHARED SYNCHRONIZED SKIP-LIST  
DATA STRUCTURE AND  
TECHNIQUE EMPLOYING  
LINEARIZABLE OPERATIONS**Filed:** 9/3/2003**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 014483/0341**Reference No:** 33226/972001; P7982**18. Patent Application/Serial No.: 10/991,148****Title:** USE OF MEMORY PROTECTION TO  
IMPLEMENT REPLICATING  
COLLECTION IN A INCREMENTAL,  
COPYING GARBAGE COLLECTOR**Filed:** 11/17/2004**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 016007/0616**Reference No:** 33226/974001; P8226

**19. Patent Application/Serial No.: 10/881,101**

**Title:** USING CLASS PROPERTIES TO  
DEGREGATE OBJECTS IN A  
GENERATION MANAGED BY THE  
TRAIN ALGORITHM

**Filed:** 6/30/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 015539/0072

**Reference No:** 33226/975001; P8231

**20. Patent Application/Serial No.: 11/021,287**

**Title:** METHOD AND APPARATUS FOR  
FORWARDING REFERENCES TO  
OBJECTS CONCURRENTLY WITH  
SPACE-INCREMENTAL GARBAGE  
COLLECTION

**Filed:** 12/23/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 015627/0335

**Reference No:** 33226/976001; P8274

**21. Patent Application/Serial No.: 10/313,878**

**Patent No.:** 7,143,124

**Title:** DETECTION OF DEAD REGIONS  
DURING INCREMENTAL  
COLLECTION

**Filed:** 12/6/2002

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 013559/0709

**Reference No:** 33226/977001; P8275

**22. Patent Application/Serial No.: 10/930,483**

**Title:** IMPROVED SCANNING OF  
EVACUATED OBJECTS IN A  
GENERATION MANAGED BY THE  
TRAIN ALGORITHM

**Filed:** 8/31/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 015782/0538

**Reference No:** 33226/978001; P8276

**23. Patent Application/Serial No.: 10/391,405**

**Title:** PARALLEL CACHING OF  
INSERTIONS INTO REMEMBERED  
SETS

**Filed:** 3/18/2003

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 013890/0128

**Reference No:** 33226/979001; P8303

**24. Patent Application/Serial No.: 11/131,827**

**Title:** METHOD AND APPARATUS FOR  
CONCURRENTLY PROCESSING  
REMEMBERED SETS IN A SPACE-  
INCREMENTAL GARBAGE  
COLLECTOR

**Filed:** 5/18/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016366/0209

**Reference No:** 33226/981001; P8317

25. Patent Application/Serial No.: 10/309,503

Patent No.: 7,136,887

Title: METHOD AND MECHANISM FOR  
FINDING REFERENCES IN A CARD  
IN TIME LINEAR IN THE SIZE OF  
THE CARD IN A GARBAGE-  
COLLECTED HEAP

Filed: 12/4/2002

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 013550/0405

Reference No: 33226/982001; P8318

26. Patent Application/Serial No.: 10/799,186

Title: EXPLOITING POPULAR OBJECTS TO  
REDUCE MUTATOR OVERHEAD

Filed: 3/12/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 015091/0736

Reference No: 33226/984001; SUN040081

27. Patent Application/Serial No.: 10/986,527

Title: EXPLOITING POPULAR OBJECTS TO  
REDUCE MUTATOR OVERHEAD

Filed: 11/11/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 015983/0321

Reference No: 33226/984002; SUN040081

**28. Patent Application/Serial No.:** 10/799,187

**Title:** CONCURRENT-MARKING-  
INITIATION HEURISTIC

**Filed:** 3/12/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 015095/0376

**Reference No:** 33226/983001; SUN040079

**29. Patent Application/Serial No.:** 10/986,401

**Title:** CONCURRENT-MARKING-  
INITIATION HEURISTIC

**Filed:** 11/11/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016020/0320

**Reference No:** 33226/983002; SUN040079-CIP

**30. Patent Application/Serial No.:** 11/090,398

**Title:** METHOD AND APPARATUS FOR  
SWITCHING BETWEEN PER-THREAD  
AND PER-PROCESSOR RESOURCE  
POOLS IN MULTI-THREADED  
PROGRAMS

**Filed:** 3/25/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016300/0319

**Reference No:** 33226/987001; SUN040951



**31. Patent Application/Serial No.: 11/215,510**

**Title:** METHOD AND APPARATUS FOR  
SELECTIVELY ELIMINATING WRITE  
BARRIERS IN SNAPSHOT-AT-THE-  
BEGINNING CONCURRENT-  
MARKING GARBAGE COLLECTORS

**Filed:** 8/30/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016542/0156

**Reference No:** 33226/989001; SUN041094

**32. Patent Application/Serial No.: 11/128,791**

**Title:** METHOD AND APPARATUS FOR  
REDUCING REMEMBERED SET  
OVERHEAD IN A GENERATIONAL  
GARBAGE COLLECTOR BY  
CONSTRAINING COLLECTION SET  
CHOICE

**Filed:** 5/13/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016336/0241

**Reference No:** 33226/990001; SUN041424

**33. Patent Application/Serial No.: 11/021,260**

**Title:** METHOD AND APPARATUS FOR  
ISOLATING SELECTED HEAP  
OBJECTS USING A FAULTING  
ADDRESS TRAP

**Filed:** 12/23/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 015627/0286

**Reference No:** 33226/991001; SUN041505

**34. Patent Application/Serial No.: 11/091,611**

**Title:** METHOD AND APPARATUS FOR  
IMPROVING PARALLEL MARKING  
GARBAGE COLLECTORS THAT USE  
EXTERNAL BITMAPS

**Filed:** 3/28/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016082/0276

**Reference No:** 33226/992001; SUN050023

**35. Patent Application/Serial No.: 11/091,032**

**Title:** METHOD AND APPARATUS FOR  
RECORDING MODIFIED REFERENCE  
LOCATIONS IN GARBAGE-  
COLLECTED HEAP MEMORY

**Filed:** 3/28/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016082/0191

**Reference No:** 33226/993001; SUN050025

**36. Patent Application/Serial No.: 11/218,145**

**Title:** METHOD AND APPARATUS FOR  
DYNAMICALLY PRE-TENURING  
OBJECTS IN A GENERATIONAL  
GARBAGE COLLECTION SYSTEM

**Filed:** 9/1/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016542/0121

**Reference No:** 33226/994001; SUN050202

**37. Patent Application/Serial No.: 11/218,179**

**Title:** METHOD AND APPARATUS FOR  
BYTE ALLOCATION ACCOUNTING  
IN A SYSTEM HAVING A MULTI-  
THREADED APPLICATION AND A  
GENERATIONAL GARBAGE  
COLLECTOR THAT DYNAMICALLY  
PRE-TENURES OBJECTS

**Filed:** 9/1/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016542/0109

**Reference No:** 33226/995001; SUN050203

**38. Patent Application/Serial No.: 11/474,599**

**Title:** APPARATUS AND METHOD FOR  
COORDINATED VIEWS OF  
CLUSTERED DATA

**Filed:** 6/26/2006

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 017917/0010

**Reference No:** 33226/996001; SUN050482

**39. Patent Application/Serial No.: 11/477,021**

**Title:** METHOD AND APPARATUS FOR  
SEARCHING AND RESOURCE  
DISCOVERY IN A DISTRIBUTED  
ENTERPRISE SYSTEM

**Filed:** 6/28/2006

**Applicant:** Sun Microsystems, Inc.

**Reference No:** 33226/997001; SUN050600

**40. Patent Application/Serial No.: 11/413,641****Title:** METHOD AND APPARATUS FOR  
BROWSING SEARCH RESULTS VIA A  
VIRTUAL FILE SYSTEM**Filed:** 4/28/2006**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 017754/0711**Reference No:** 33226/998001; SUN050633**41. Patent Application/Serial No.: 11/182,539****Title:** METHOD AND APPARATUS FOR  
GENERATING MEDIA PLAYLISTS BY  
DEFINING PATHS THROUGH MEDIA  
SIMILARITY SPACE**Filed:** 7/15/2005**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 016366/0563**Reference No:** 33226/999001; SUN050732**42. Patent Application/Serial No.: 10/800,363****Title:** MIXING COPYING COLLECTION  
AND CONCURRENT MARKING**Filed:** 3/12/2004**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 015983/0314**Reference No:** 33226/938000; SUN040073

**43. Patent Application/Serial No.:** 09/837,669

**Patent No.:** 7,017,160

**Title:** CONCURRENT SHARED OBJECT  
IMPLEMENTED USING A LINKED-  
LIST WITH AMORTIZED NODE  
ALLOCATION

**Filed:** 4/18/2001

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 011734/0644

**Reference No:** 33226/960001; P4665-CIP-0

**44. Patent Application/Serial No.:** 11/384,627

**Title:** CONCURRENCY TECHNIQUE FOR  
SHARED OBJECTS

**Filed:** 3/20/2006

**Applicant:** Sun Microsystems, Inc.

**Reference No:** 33226/960002; P4665US-CON-0

PTO/S9/97 (09-04)  
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Application No. (If known): 09/710,218

Attorney Docket No.: 33226/963001; P4896

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